

thick and solid, and covered by two or three layers of circular pieces of rose leaves.

MEGACHILE SCAEVUS Say.—I find in Dr. T. W. Harris MS. notes, in the library of the Boston Society of Natural History, the following notes on this species. "Nest under a stone Sept. 11, 1829. Imago, June and July."

MEGACHILE n. sp?.—Six cocoons were found in blackberry stems (probably received from Mr. James Angus) in tunnels just their size. They did not lie very near each other. They are quite tough and thick, and are rounded at one end and squarish at the other. Length .40; breadth .14 inch.

MEGACHILE BREVIS Say.—Its cells are like those of *M. centuncularis*, but the leaves of which they are made are more loosely placed around the cocoon. The leaves are neither those of the rose or spiraea, and were not identified. This is a small species, with the fore tibiae simple, as are those of *M. integer* Say. The nest, preserved in the Harris collection, is in the museum of the Boston Society of Natural History.

MEGACHILE INTEGER Say.—The nest, also in the Harris collection, is scarcely distinguishable from those of *M. centuncularis*, though the pieces may be a little larger, and the cells a little more flattened.

ENTOMOLOGICAL ITEMS.

Mr. T. D. A. Cockerell of Jamaica is engaged in an investigation upon the insects of Custer County, Colorado, with special reference to the origin of the successive faunas found at different altitudes, based upon his collections while resident there. It can hardly fail to give results of considerable general interest.

Out of fifty-seven specimens of *Opomala brachyptera* collected this season in New England by Mr. A. P. Morse, seven (2 ♂, 5 ♀) have tegmina and wings which extend to the tip of the hind femora, the ancestral form thus appearing to an unexpected degree;

of twenty-eight specimens in the collection of Mr. S. H. Scudder only one (a ♂) has wings of this length.

The U. S. National museum has recently published as a bulletin a pamphlet of about 150 pages, amply illustrated, containing admirable "Directions for collecting and preserving insects," by Dr. C. V. Riley; it is excellently planned and executed, with many sensible suggestions.

A successful visit was made last July by Messrs. S. H. and G. H. Scudder to the summits of the White Mountains to procure the eggs of *Oeneis semidea*. More than fifty females were captured, and about half of them sent to Mr. W. H. Edwards in West Virginia, the others placed over growing grass. More than half of those sent to West Virginia reached there alive and were there confined over growing plants, and from all many hundreds of eggs were obtained. Of one lot of over one hundred eggs laid in Cambridge, July 14, every one that was fertile hatched on July 26. The period may of course be longer on the mountain. Mr. G. H. Scudder found a caterpillar which had just reached the last stage feeding at midday on a blade of *Carex*, and it has since fed in Cambridge quite as much by day as by night.

The friends and admirers of the late Mr. Henry Walter Bates are endeavoring to raise a fund to be presented to his widow as a suitable memorial of their esteem. The first list embraced the names of nearly ninety persons, and £ 377 has been subscribed. Contributions may be sent to S. Wm. Silver, 3 York Gate, Regent's Park, N. W., London, England.

An admirable and interesting illustrated account of the life-history of *Hypoderma lineata*, the ox-bot of the United States, is given by Dr. C. V. Riley in the June number of insect life; Mr. Riley also contributes to the same number a highly important description and figure of the first larval stage of *Bruchus fabae*, showing that it has slender and rather long thoracic legs of a peculiar

pattern, lost with the first moult; and he has since pointed out that the same features are found in *Bruchus pisi*.

Late in August Mr. A. P. Morse took a black female of *Fasoniades glaucus* at Greenwich, Conn., the first known capture of this form in New England.

The first volume of Mr. W. F. Kirby's long promised Synonymic catalogue of moths, containing the Sphinges and Bombyces, has appeared. It makes a stout volume of 951 pages and is carried out in the same way as his catalogue of Butterflies. It will prove of much service.

Mr. Kirby has also issued a new edition of his Elementary text book of entomology, but beyond brief notes about some of the insects figured and the addition of an index, it scarcely differs from the first.

The eleventh part of Moore's Lepidoptera Indica leaves the work still confined to the Satyrinae; this part is almost entirely de-

voted to species of Debis and Lethe; besides the separation of wet and dry season forms in two species of Debis and the early stages of two species of Lethe there is little of interest to the general reader; but it is full of geographical details, and contains, as usual, a complete summary of all that has been recorded of each species.

The closing pages of the second volume of Dr. Gundlach's Entomologia Cubana have just reached this country; they deal with the Orthoptera, from which we find that he credits Cuba with 146 species, divided as follows: Forficulidae, 8; Blattidae, 42; Mantidae, 8; Phasmidae, 14; Acrididae, 20; Locustidae, 23; Gryllidae, 31. How different the proportional numbers are from what would be found in any state of the Union, even Florida!

On p. 292 of the July number of *Psyche*, in line 15 of the table, for "indistinct" read "distinct."

The Butterflies of the Eastern United States and Canada.

With special reference to New England. By SAMUEL H. SCUDDER.

Illustrated with 96 plates of Butterflies, Caterpillars, Chrysalids, etc. (of which 41 are colored) which include about 2,000 Figures besides Maps and Portraits. 1958 Pages of Text.

Vol. 1. Introduction; Nymphalidae.

Vol. 2. Remaining Families of Butterflies.

Vol. 3. Appendix, Plates and Index.

The set, 3 vols., royal 8vo, half levant, \$75.00 net.

HOUGHTON, MIFFLIN & CO.,

4 Park St., Boston, Mass.

RHOPALOCERA.

Rhopalocera from Europe, New Grenada, Sikim, Assam, Pulo Nias, British Guiana, Congo Free State and various Polynesian Islands. Correspondents will oblige by stating desiderata. *No post cards.*

DR. J. T. T. REED,
Ryhope, Sunderland, England.

ADVERTISEMENT.

Undersigned wishes to obtain either by exchange or for cash, Cicindelidae and rare Carabidae from all parts of the U. S. Lists please address to

A. LUETGENS,
207 E. 15 Street, N. Y. City.

THE NEW ENGLAND SPIDERS.

By J. H. EMERTON.

In seven parts from the Transactions of the Connecticut Academy of Arts and Sciences Vols. VI, VII and VIII containing descriptions of 340 species with 1400 figures.

Price for the whole \$6.00, or either part sold separately. Sent by mail on receipt of price.

J. H. EMERTON,
Boston, Mass.